Name:

at1113exam: Expand, factor, and solve quadratics (v205)

1. Expand the following expression into standard form.

$$(8x - 3)^2$$

2. Solve the equation.

$$(4x + 7)(6x - 5) \;=\; 0$$

3. Expand the following expression into standard form.

$$(9x + 4)(9x - 4)$$

4. Expand the following expression into standard form.

$$(7x - 4)(5x - 9)$$

5. Solve the equation with factoring by grouping.

$$6x^2 + 8x - 15x - 20 \;=\; 0$$

6. Factor the expression.

$$x^2 - 12x + 35$$

7. Solve the equation.

$$8x^2 - 12x - 4 \;=\; 5x^2 - 2x + 4$$

8. Factor the expression.

$$16x^2 - 49$$